

ROBOTIC METHOD AND APPARATUS FOR REMOVING PARTS FROM THE TRIM PRESS OF A THERMOFORMING SYSTEM

Abstract

A robotic method and apparatus for removing finished parts from the trim press of a thermoforming system including a pick and place tool mechanism moveable on at least a two-axis gantry mechanism arranged adjacent the trim press, the pick and place tool being moveable into and out of the trim press to acquire and remove finished thermoformed parts from the trim press. Movement of the pick and place tool is synchronized with the trim press cycle. The present method may include a conveyance system mounted adjacent the pick and place mechanism for placing and stacking the finished thermoformed parts thereon once such parts are removed from the trim press.